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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE



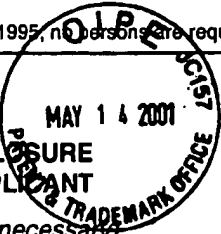
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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MAY 1 4 2001



Complete if Known

Application Number	09/658,393
Filing Date	09/08/2000
First Named Inventor	Berkner
Group Art Unit	2621
Examiner Name	Not yet assigned
Attorney Docket Number	74451.P110

Sheet 1 of 9

U.S. PATENT DOCUMENTS

Examiner Initials *	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Filing Date if Appropriate
	Number				
DL	5,717,789		Anderson et al.	2/10/1998	
I	5,883,973		Pascovici et al.	3/16/1999	
I	5,805,721		Vuylsteke et al.	9/8/1998	
DL	5,867,606		Tretter	2/2/1999	

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FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS

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DL	ABRAMOVICH, F., Silverman, B.W., "Wavelet Decomposition Approaches to Statistical Inverse	
I	Problems," Biometrika, vol. 85, pp. 115-129, 1998.	
I	BHAKARAN, V., et al., "Text and Image Sharpening of Scanned Images	
I	in the JPEG Domain," Proceedings of the 1997 International Conference on Image Processing	
DL	(ICIP '97), pp. 326-329, 1997.	

Examiner
Signature

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Date
Considered

3/3/05

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Substitute for form 1449A/PTO (Modified by BSTZ 6/30/99) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		MAY 14 2001 U.S. PATENT & TRADEMARK OFFICE		Complete if Known	
		Application Number	09/658,393		
		Filing Date	09/08/2000		
		First Named Inventor	Berkner		
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Sheet	2	of	9	Attorney Docket Number	74451.P110

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TD	DONOHU, D.L., "Nonlinear solution of linear inverse problems by wavelet-vaguelett	
	decomposition," J. of Appl. and Comp. Harm. Anal, vol. 2, pp. 101-115, 1995.	
	MALLAT, S., A Wavelet Tour of Signal Processing. Academic Press, 1998.	
	NEELAMANI, R., Choi, H., Baraniuk, R., "Wavelet-based Deconvolution for Ill-conditioned	
	Systems," in Proceedings of ICASSP, vol. 6, pp. 3241-3244, 1998.	

Examiner Signature		Date Considered	3/3/05
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Sheet 3 of 9

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DL	POLESEL, A., et al., "Adaptive unsharp masking for contrast enhancement,"	
	in Proceedings of ICIP'97, pp. 267-270, 1997.	
	ZONG, X., Laine, A.F., Geiser, E.A., Wilson, D.C., "De-Noising and contrast enhancement via	
	wavelet shrinkage and nonlinear adaptive gain," Proceedings of the SPIE, vol. 2762,	
	pp. 566-574, Orlando, FL, 1996.	



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1996, no persons are required to file a statement of financial interest.

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Sheet	4	of	9
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DL	ANDREWS, H.C., Hunt, B.R., Digital Image Restoration. Prentice-Hall, Inc. Englewood Cliffs, New Jersey, 1977.	
	BERKNER, K., Wells Jr, R.O., "Smoothness estimates for soft-threshold denoising via translation	
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	COIFMAN, R.R., Donoho, D.L., "Translation invariant denoising," in Wavelets and Statistics,	
	Springer Lecture Notes (A. Antoniadis, ed.), Springer-Verlag, 1995.	

Robert J. Long

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1995, no person is required to file a trademark application with the Trademark Office.

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TDL	DONOHU, D.L., "De-noising by soft-thresholding," IEEE Transactions on Information Theory,	
	vol. 41, no.3, pp. 613-627, 1995.	
	JAIN, A.K., Fundamentals of digital image processing. Prentice Hall, Englewood Cliffs, NJ, 1989.	
	KINGSBURY, N., "The dual-tree complex wavelet transform: a new efficient tool for image	
	restoration and enhancement," in Proc. European Signal Processing Conf., pp. 319-322, 1998.	

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 1995, no persons are required to be present at the hearing.
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Sheet 6 of 9

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TOC	LANG, M., Guo, H., Odegard, J.E., Burrus, C.S., Wells Jr, R.O., "Noise reduction using an un-	
	decimated discrete wavelet transform," IEEE Signal Processing Letters, vol. 3, pp. 10-12, 1996.	
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Sheet 7 of 9

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FOREIGN PATENT DOCUMENTS

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DL	DEVORE, R.A., Jawerth, B., Lucier, B.J., "Image compression through wavelet transform coding,"	
	IEEE Trans. Information Theory, vol. 38, no. 2, pp. 719-746, 1992.	
	DONOHU, D.L., Johnstone, I.M., "Adaption to unknown smoothness via wavelet shrinkage,"	
	J. American Statist. Assoc., pp. 1200-1224, 1995.	

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APPROPRIATE AGENCIES AND THE PUBLIC ARE ADVISED THAT THIS CASE IS BEING CLOSED BY THE PATENT & TRADEMARK OFFICE ON MAY 14, 2001.

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TR	DONOHU, D.L., Vetterli, M., DeBore, R.A., Daubechies, I., "Data compression and harmonic	
	analysis," IEEE Transactions on Information Theory, vol. 44, no. 6, pp. 2435-2476, 1998.	
	LEVY VEHEL, J., Guiheneuf, B., "2-microlocal analysis and applications in signal processing" in	
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Charles

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TPC	MUNOZ, A., Blu T., Unser, M., "Non-Euclidean Pyramids," in Proceedings of SPIE Conference,	
(San Diego, vol. 4119, pp. 710-720, 2000.	



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